UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

20-8600024.76

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Mr. F.D. Schultz
Coordinator, Regulatory Affairs
National Starch and Chemical Corporation
P.O. Box 6500
Bridgewater, New Jersey 08807

Dear Mr. Schultz: RE: IC-1789

This is in response to your letter of May 23, 1986 in which you inquire on the Inventory status of the various modified starches used in commerce.

As you stated in your letter, depending on the plant source, the ratio of amylose to amylopectin in starch granules varies considerably. Through plant breeding and hybridization this ratio can be altered to yield a higher content of amylose or amylopectin in starch granules.

The Agency has determined that all the natural starches (except the waxy starches), where the starch granule consists of a mixture of amylose (CASRN: 9005-82-7) and amylopectin (CASRN: 9037-22-3) are included in the Inventory entry, Starch (CASRN: 9005-25-8). The starches obtained from hybridized plants (except the plants that produce waxy starches) are also included in the Inventory entry Starch (CASRN: 9005-25-8).

However, when the source of the starch is waxy corn, waxy sorghum, waxy barley, and waxy rice whose granules consist of 100% amylopectin, the Agency names it amylopectin (CASRN: 9037-22-3). The Agency has also determined that the amylopectin produced by fractionation of the starch granules is included in CASRN: 9037-22-3.

Therefore, if you were to react any natural starch other than 100% amylopectin with the chemical substances identified in the PMN you recently submitted (P-86-990), you would need to submit a new PMN. All similarly modified natural starches would also be covered by this new PMN.

If there are any questions please address them to Dr. Lygia B. Matta of my staff at the following address:

OTS Document Control Officer (Room E-201)
Attention: Chemical Inventory Section
401 M Street, SW (TS-790)
Washington, DC 20460

or call her at (202) 382-3551. Please reference Inventory Control Number 1789 in any further contact with this office.

Sincerely yours,

Carol Farris

Carol A. Farris, Ph.D.
Chief
Chemical Inventory Section